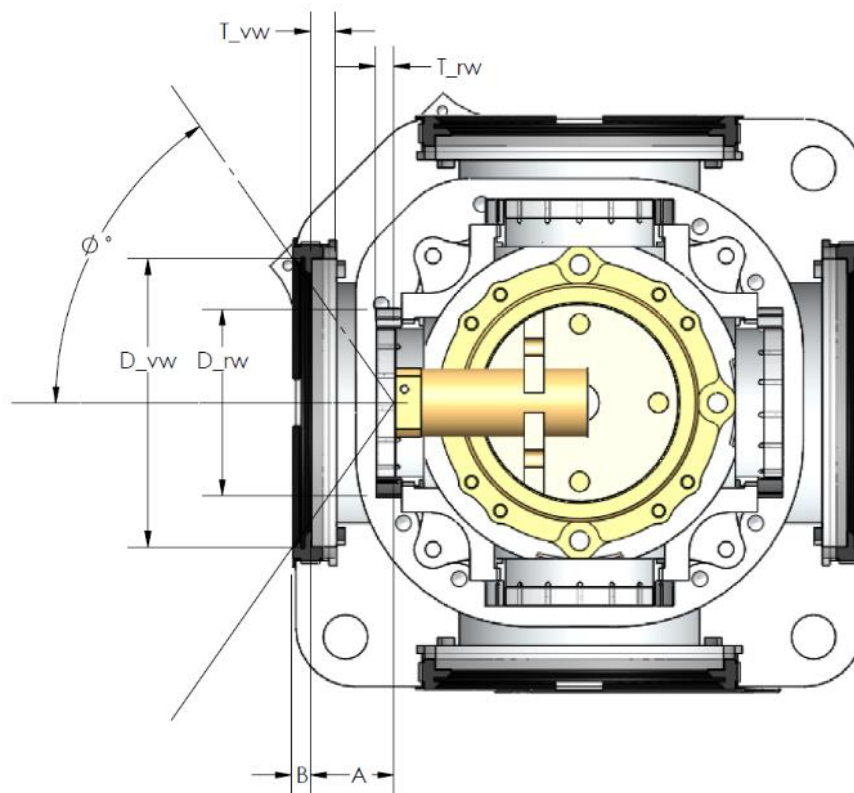


Acceptance Angle Dimensions – 50mm Windows

Last Updated: December 23, 2015

	Working Distance	Numerical Aperture	Outer Window Ring	Acceptance Angle	Window Information			
	A	NA*	B	ϕ°	D_vw	D_rw	T_vw	T_rw
	Inside of Radiation Window to Outside of Vacuum Window	NA based on acceptance angle $\sin(\phi)$	Outside of Vacuum Window to Outer-Most Surface (window ring)	Maximum Acceptance Angle (Half -angle)	Diameter - Vacuum Window	Diameter- Radiation Window	Thickness- Vacuum Window	Thickness- Radiation Window
	in/(mm)		in/(mm)	degrees	in/(mm)	in/(mm)	in/(mm)	in/(mm)
Standard 35mm Housing	0.43 / (11.0)	0.72	0.14 / (3.6)	46.43	1.18 / (30)	0.79 / (20)	0.19 / (3.0)	0.08 / (2.0)
Standard 50mm Housing	0.53 / (13.4)	0.83	0.12 / (3.0)	56.60	1.97 / (50)	1.18 / (30)	0.16 / (4.0)	0.12 / (3.0)
50mm Housing with Only Extended Collar	0.20 / (5.0)	0.95	0.12 / (3.0)	72.12	1.97 / (50)	0.59 / (15)	0.16 / (4.0)	0.02 / (0.5)
Side LWD	0.07 / (1.8)	0.96	0.25 / (6.4)	74.23	0.79 / (20)	0.59 / (15)	0.03 / (0.8)	0.02 (0.5)

*NA calculation does not include the effect of window refraction



Note: Product specifications are based on a standard system; various options, configurations, and/or custom modifications may cause slight differences. Specifications and other information subject to change without notice.